10/516602

## PATENT COOPERATION TREATY & FIFTO 03 DEC 2004

PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Notification of	Transmittal of International Search Report			
OPP020445KR	ACTION	(Form PCT/ISA/220	)) as well as, where applicable, item 5 below.			
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/KR02/01391	24 JULY 2002 (24.07	7.2002)	12 JUNE 2002 (12.06.2002)			
Applicant						
SAMSUNG ELECTRONICS CO., LTD. et al						
This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists of a to the little state of the little state			_			
associated and a sequence of a seq	,, or one, prior are sovari		-			
Basis of the report     a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
the international search was car Authority (Rule 23.1(b)).	ried out on the basis of a t	ranslation of the inter	national application furnished to this			
<ul> <li>b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:</li> </ul>						
contained in the international application in written form.						
filed together with the internat	ional application in compu	iter readable form.				
furnished subsequently to this	Authority in written form.					
furnished subsequently to this	Authority in computer rea	dable form.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
2. Certain claims were found unsearchable (See Box I).						
3. Unity of invention is lacking (See Box II).						
4. With regard to the title,						
X   the text is approved as submitted by the applicant.						
the text has been established by this Authority to read as follows:						
	·					
5. With regard to the abstract,						
X the text is approved as submitted by the applicant.						
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may,						
within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The figure of the drawing to be pub	lished with the abstract is	Figure No. 1	<u> </u>			
as suggested by the applicant.			None of the figures.			
because the applicant failed to	suggest a figure.					
because this figure better characterizes the invention.						



			PCT/KR02/01391
A. CLA	SSIFICATION OF SUBJECT MATTER	1	
IPC:	7 H01L 29/786		
According to	International Patent Classification (IPC) or to both nati	onal classification and IPC	
B. FIEL	DS SEARCHED		
Minimum doc IPC7 H01L	cumentation searched (classification system followed by	v classification symbols)	
Documentatio	on searched other than minimum documentation to the	extent that such documents are in	ncluded in the fields searched
	nts and Published Patent Applications since 1947		
	a base consulted during the intertnational search (name organic, metal, complex, Ag, tft, electrode)	of data base and, where practica	able, search terms used)
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where app	propriate, of the relevant passage	Relevant to claim No.
&, X	KR 1991-6244 B1 (Hitachi Ltd.) 17 August 1991 See the whole document, and esp., paragraphs 4-13 c claims.	on page 5, paragraph 10 on page	1-13 6 and the
&, X	JP 63-266870 A (Hitachi Ltd.) 2 November 1988 See the whole document, and esp., the claims, cols 21-24 and col. 28.		1-13
Α	JP 60-140880 A ( Hitachi Ltd.) 25 July 1985 See the whole document.		1-13
Α	US 4643913 A (Hitachi Ltd.) 17 February 1987 See the whole document, and esp., the abstract and "I	Example 1" in col. 5.	1-13
Further	documents are listed in the continuation of Box C	See patent family	annex.
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
	ual completion of the international search	Date of mailing of the internation 25 MARCH 2003 (2)	
	4 MARCH 2003 (24.03.2003)	Authorized officer	
	iling address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea	KIM, Kwan Shik	ANA
Facsimile No.	82-42-472-7140	Telephone No. 82-42-481-57	751

## INTERNATIONAL SEARCH REPORT

	EVIDAGATIONAL SEARCH REFORT		PCT/KR02/01391
A. CLA	SSIFICATION OF SUBJECT MATTER	<del></del>	
1	7 H01L 29/786	•	
1	International Patent Classification (IPC) or to both nat	ional classification and IPC	
	LDS SEARCHED		
Minimum do	cumentation searched (classification system followed b	y classification symbols)	- <u> </u>
IPC7 H01L			
Documentation	on searched other than minimum documentation to the	extent that such documents are	included in the fields seembed
1	nts and Published Patent Applications since 1947	over mm and a comments we	meraded in the fields scalened
	ta base consulted during the intertnational search (name	e of data base and, where practic	cable, search terms used)
eKIPASS ( o	organic, metal, complex, Ag, tft, electrode)	·	
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passag	ges Relevant to claim No.
&, X	KR 1991-6244 B1 (Hitachi Ltd.) 17 August 1991	***************************************	1-13
	See the whole document, and esp., paragraphs 4-13 claims.	on page 5, paragraph 10 on pag	e 6 and the
&, X	JP 63-266870 A (Hitachi Ltd.) 2 November 1988		1-13
	See the whole document, and esp., the claims, cols 2	11-24 and col. 28.	
	TD CO 140000 A (VI) 1: I ad ) 25 July 1005		1.12
Α	JP 60-140880 A ( Hitachi Ltd.) 25 July 1985 See the whole document.		1-13
Α	US 4643913 A ( Hitachi Ltd.) 17 February 1987	•	1-13
•	See the whole document, and esp., the abstract and "	Example 1" in col. 5.	
			·
Further	documents are listed in the continuation of Box C.	See patent family	y annex.
	ategories of cited documents:		after the international filing date or priority
"A" document	defining the general state of the art which is not considered	date and not in conflict w	with the application but cited to understand
"E" earlier ap	articular relevance plication or patent but published on or after the international	the principle or theory un "X" document of particular rele	derlying the invention evance; the claimed invention cannot be
filing date "L" document	t which may throw doubts on priority claim(s) or which is	considered novel or cann step when the document is	ot be considered to involve an inventive staken alone
	stablish the publication date of citation or other ason (as specified)	"Y" document of particular rele	evance; the claimed invention cannot be inventive step when the document is
•	referring to an oral disclosure, use, exhibition or other	combined with one or mo	re other such documents, such combination
"P" document	t published prior to the international filing date but later priority date claimed	being obvious to a person s "&" document member of the s	
Date of the act	tual completion of the international search	Date of mailing of the interna	tional search report
24	4 MARCH 2003 (24.03.2003)	25 MARCH 2003 (	(25.03.2003)
Name and mailing address of the ISA/KR Authorized officer			

Facsimile No. 82-42-472-7140 Form PCT/ISA/210 (second sheet) (July 1998)

Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

Name and mailing address of the ISA/KR

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KIM, Kwan Shik

Telephone No. 82-42-481-5751

## (PATENT COOPERATION TREATY)

발신 : 국제조사기관

수신:	PCT				
YOU ME PATENT & LAW FIRM	101				
Teheran Bldg., 825-33 Yoksam-dong, Kangnam-ku, 135-080 Seoul, Republic of Korea	국제조사보고서 또는 국제조사보고서 부작성 선언서 송부 통지서				
	(PCT 규칙 44.1)				
	발송일 (일/월/년) 27 MARCH 2003 (27.03.2003)				
출원인 또는 대리인 서류참조기호	이후의 절차에 대하여는 아래 1. 및 4. 참조				
OPP020445KR					
국제출원번호 PCT/KD02/01201	국제출원일 24 JULY 2002 (24.07.2002) (5\\7\18/10)				
PCT/KR02/01391 출원인	(임/월/년)				
동AMSUNG ELECTRONICS CO., LTD. et al	APR. 0 1. 2003				
1. 区 국제보고서가 작성되어 이를 송부함을 출원인에게 통지합니다. 조약 제19조의 규정에 의한 보정서 및 설명서의 제출: 희망하는 경우 출원인은 국제출원의 청구의 범위를 보정할 수 있습니다.(조약규칙 46): 기간 보정서 제출기간은 통상 국제조사보고서 송부일부터 2월.  제출처 The international Bureau of WIPO 34, chemin des Colmbetts 1211 Geneva 20, Switzerland Faxcimile No.: (41-22) 740 14 35  보다 자세한 지침에 대하여는 첨부되는 용지에 기재된 설명을 참조.  2. 국제조사보고서가 작성되지 아니할 것이며 조약 제17조(2)(a)의 규정에 의한 선언서가 송부됨을 출원인에게 통지합니다.  3. 조약규칙 40.2의 규정에 의한 추가수수료 납부에 대한 이의신청과 관련하여 아래 사항을 출원인에게 통지합니다.  이의신청 및 이의신청에 대한 결정 통지서를 출원인이 제출한 이의신청 및 이의신청에 대한 결정 통지서의 지정관청에의 송부 신청서와 함께 국제사무국에 송부하였습니다.  이외신청에 대한 결정이 아직 이루어지지 않았습니다; 결정이 이루어지는 대로 출원인에게 통지할 것입니다.					
일부 지정관청에 대하여는 출원인이 우선일부터 30월 의 개시를 연기하고자 하는 경우에는 우선일부터 19월 경우 출원인은 우선일부터 20월 이내에 당해 지정관청 합니다.	합니다. 공개를 하지 않거나 또는 연기할 것을 희망하는 기전에 각각의 경우에 따라 조약 규칙 90bis.1 및 90bis.3 사서를 국제사무국에 제출하여야 합니다. 까지 (일부관청에 대하여는 더 늦을수도 있음) 국내단계 이내에 국제예비심사를 청구하여야 합니다; 그렇지 않은 에 대한 국내단계의 개시를 위한 규정된 절차를 밟아야 나제예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도				
	세예비심사를 청구하지 않더라도 30월(또는 더 늦을 수도 각 특허청마다의 적용기간에 대한 구체적인 사항은 셋 사이트를 참조하시기 바랍니다.				

팩스 번호 82-42-472-7140

ISA/KR의 명칭 및 우편주소 대한민국 특허칭 302-701 대한민국 대전광역시 서구 둔산동 920번지 정부대전청사

특허청장

전화번호 82-42-481-5208

